

# Advisory Committee on Water Information

## Streamgaging Task Force

Charge: Determine the streamflow information needs of the Nation, identify the optimal streamgaging network to meet the needs, and prepare recommendations for funding responsibilities.

# Streamgaging Task Force

## Members

Interstate Council on Water Policy

U. S. Geological Survey

American Association of State Geologists

American Society of Civil Engineers

American Water Resources Association

Association of State Floodplain Managers

Association of Western State Engineers

Ground Water Protection Council

# Streamgaging Task Force

## Members

Tennessee Valley Authority

Western States Water Council

Bureau of Reclamation

National Weather Service

Natural Resources Conservation Service

U. S. Environmental Protection Agency

U. S. Army Corps of Engineers

# Streamgaging Task Force Plan

1. Identify goals of a national network
2. Compile information on all streamgaging stations
3. Evaluate achievement of goals using USGS network model
4. Identify additional stations needed to achieve each goal
5. Estimate cost of new or upgraded stations
6. Recommend a long-term funding strategy
7. Submit final report by December 31, 2000

# Streamgaging Task Force

## Network Goals

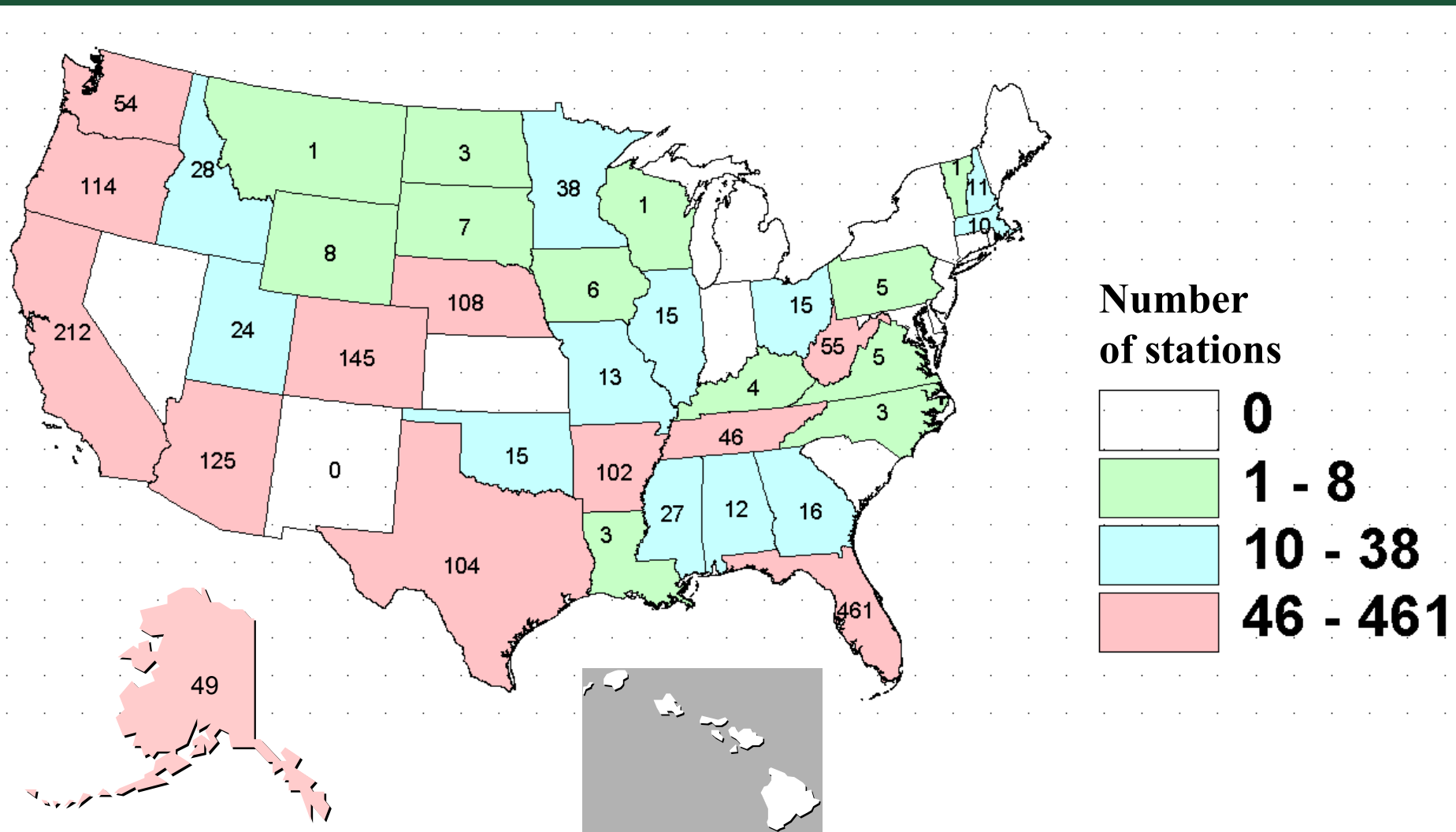
1. NWS and NRCS forecast points\*
2. NFIP communities
3. Key river basins\*
4. River basin compacts and decrees\*
5. Major river crossings of state, tribal, and international boundaries\*
6. Representative streams and rivers for flow estimation and long-term trends\*
7. River reaches with impaired water quality

# Streamgaging Task Force

## Network Goals

8. Rivers with point-source discharge permits
9. Inflow and outflow of major reservoirs
10. Major rivers with diversions
11. Rivers draining Federal lands
12. Rivers with significant canoeing, kayaking and rafting
13. Rivers supporting migratory fish populations
14. Rivers used for commercial navigation

# Stations Operated by Other Organizations



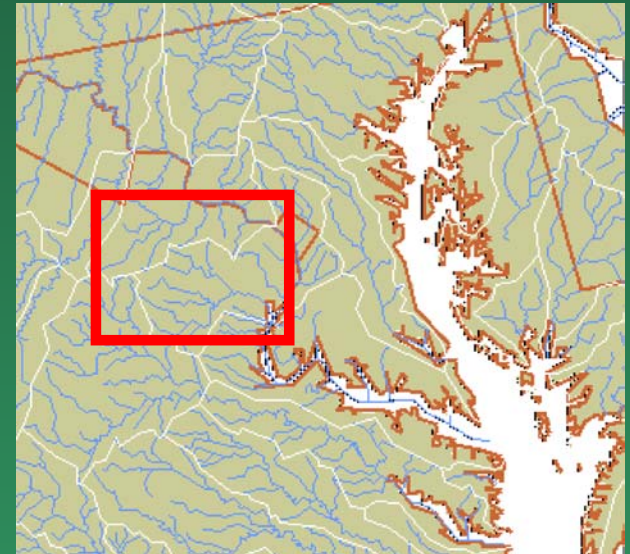
# Meta data required for adding stations to network model

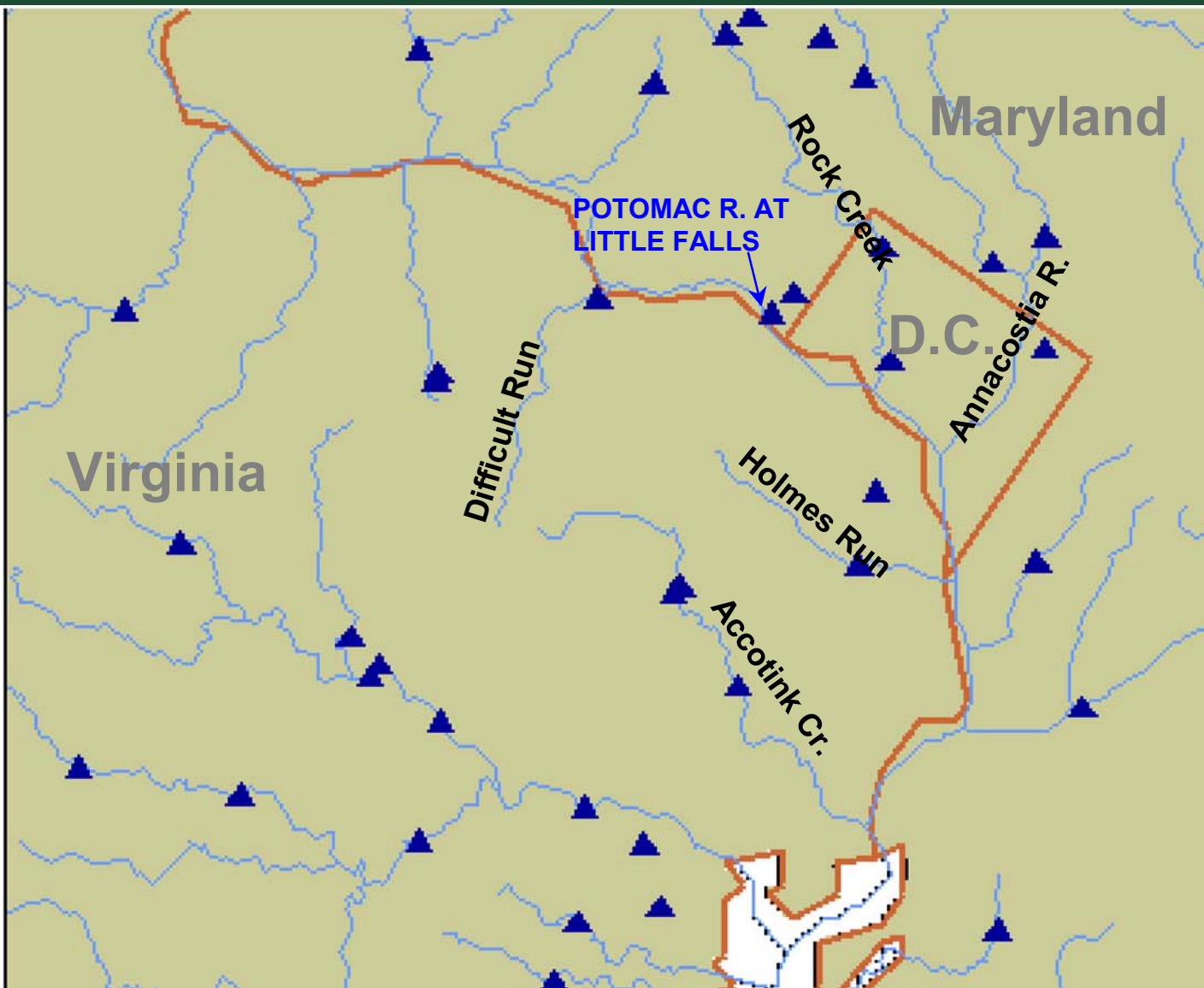
- Station code
- Station name
- Latitude/longitude
- Drainage area
- Years of active record
- Availability of telemetry
- Data quality
- Funding



# USGS Network Model

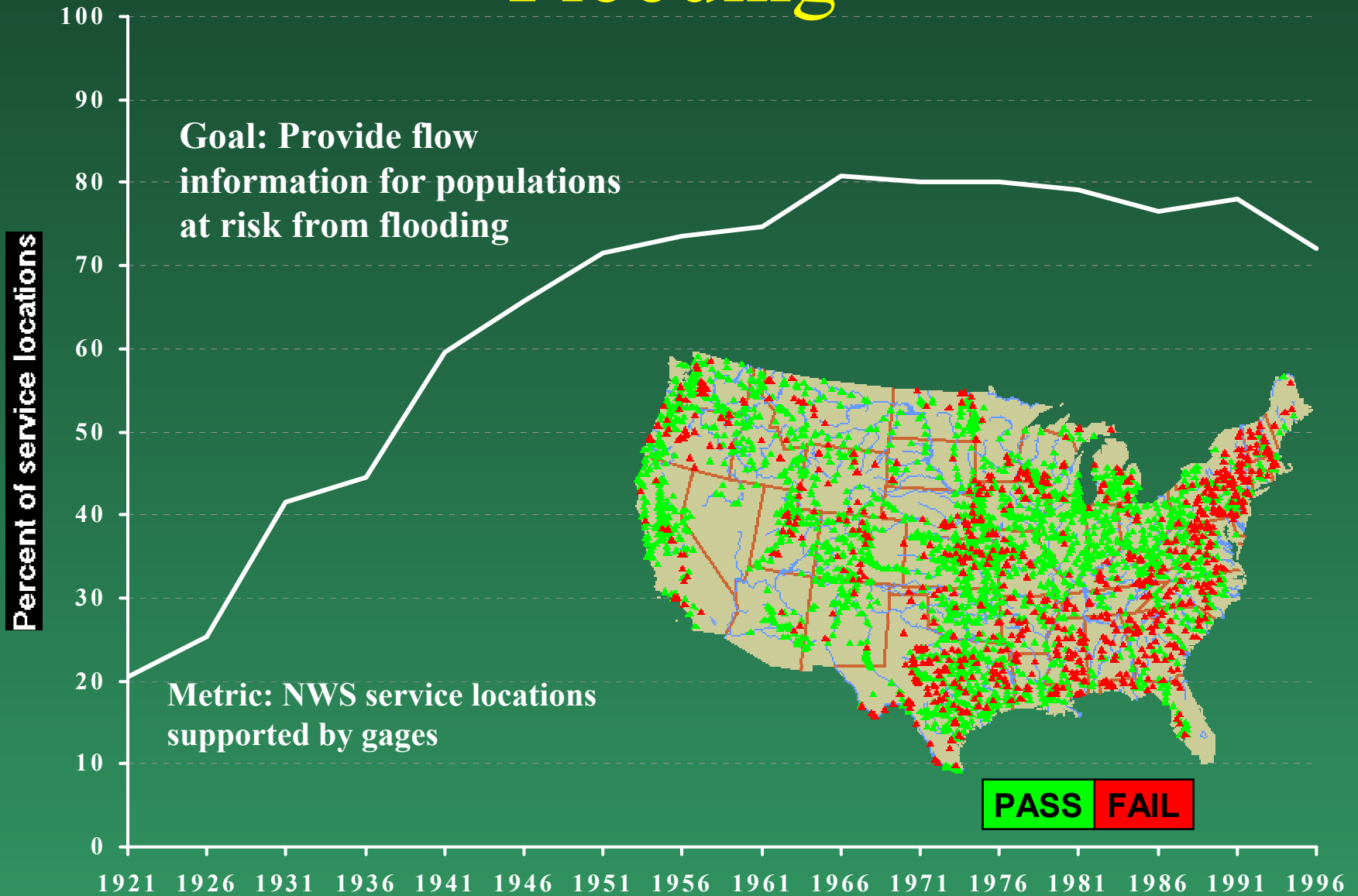
- Conterminous U.S.
- 60,000 streams (total 1M kilometers)
- 329 river basins and 2,200 watersheds
- 18,000 NFIP communities
- 303(d) file of impaired reaches
- NPDES permits
- Reservoir inventory
- Whitewater inventory
- Water use by county and HUC
- 20,000 streamflow stations
  - 7,000 USGS active
  - 1,800 other stations



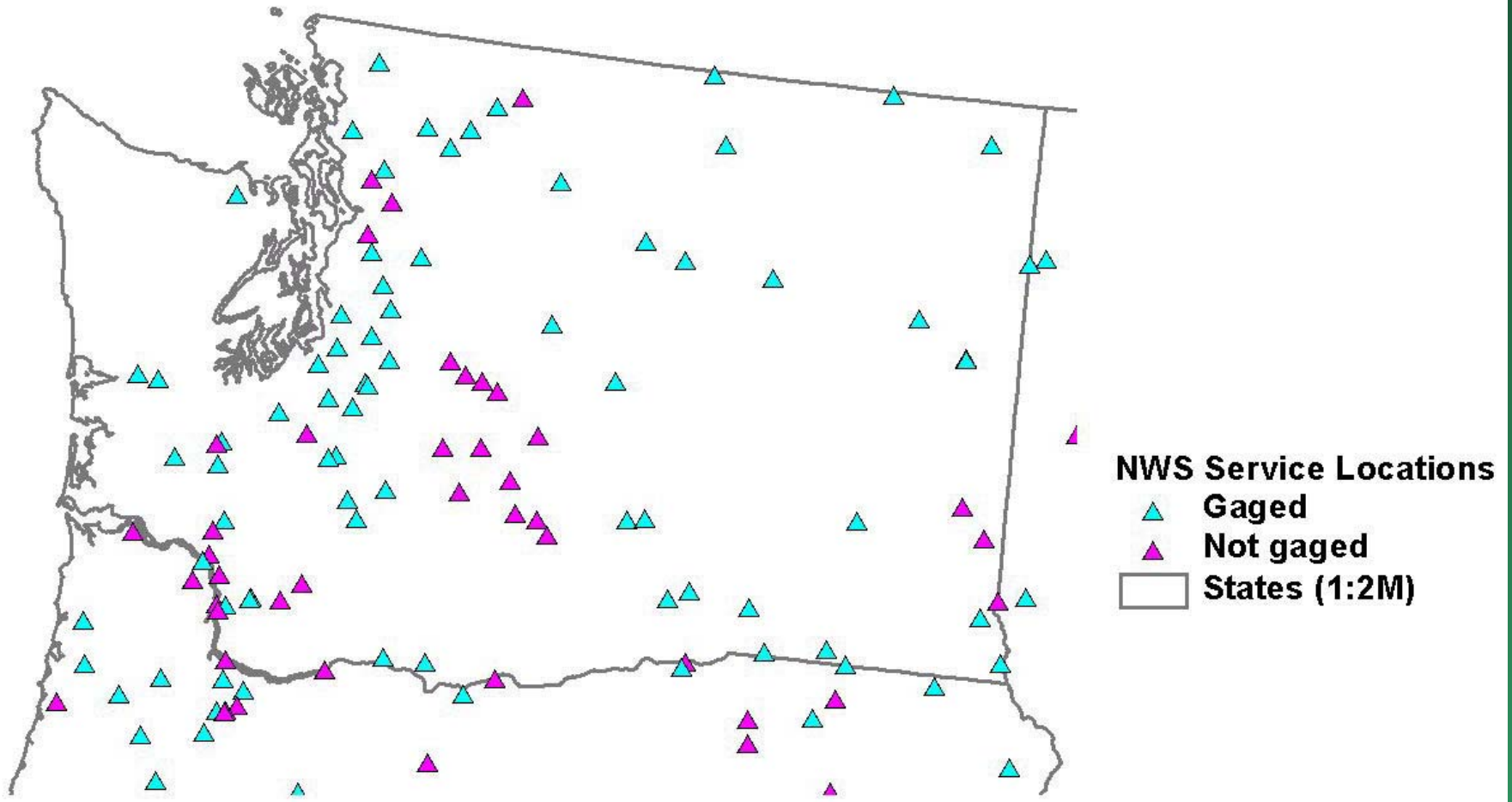


Triangles show historical USGS streamflow stations. Not all are currently active.

# Flooding



# NWS Flood-Forecasting Sites



# Priority for Additional Stations

- Upgrade existing stations operated by other organizations
  - Stage-Q rating
  - Telemetry
  - Serve data on the internet
- Reactivate discontinued stations
- Build new stations

# Long-term Funding Strategy

- USGS provide data processing and dissemination infrastructure
- USGS support and operate critical Federal stations
- OFAs support other Federal interests
- States and USGS support stations that have both a Federal and State/local interest
- States support local-interest stations